

ABSTRACT

An optoelectronic package or sub-assembly includes an edge-emitting laser and a reflector that directs a beam from the laser through a sub-mount. The sub-mount contains passive or active circuit elements that are electrically connected to the laser. The laser can be protected from the environment using either a cap in which the reflector is integrated or using an encapsulant encasing the laser. An alignment post that is sized to fit into a sleeve is mounted where the optical signal emerges from the sub-mount. Plugging the post into one end of the sleeve and inserting an optical fiber into the other end of the sleeve so that the optical fiber abuts the post will then align the optical fiber to receive the optical signal.